



July 27, 2016

Tom Moe USS Corporation P.O. Box 417 8771 Park Ridge Dr Mountain Iron, MN 55768

RE: Project: USS MinTac NPDES-TB Wk 3

Pace Project No.: 1270846

Dear Tom Moe:

Enclosed are the analytical results for sample(s) received by the laboratory on July 20, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Melisa M Woods

Massia Wirds

melisa.woods@pacelabs.com

Project Manager

Enclosures

cc: Cory Hertling Terri Sabetti, NTS







CERTIFICATIONS

Project: USS MinTac NPDES-TB Wk 3

Pace Project No.: 1270846

Virginia Minnesota Certification ID's

315 Chestnut Street, Virginia, MN 55792

Alaska Certification #MN01084

Arizona Department of Health Certification #AZ0785

Minnesota Dept of Health Certification #: 027-137-445

North Dakota Certification: # R-203

Wisconsin DNR Certification #: 998027470 WA Department of Ecology Lab ID# C1007

Nevada DNR #MN010842015-1

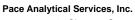
Oklahoma Department of Environmental Quality

Duluth Minnesota Cerification ID's

4730 Oneota St., Duluth, MN 55807

Minnesota Dept of Health Certification #: 027-137-152

Wisconsin DNR Certification #: 999446800 North Dakota Certification #: R-105



315 Chestnut Street Virginia, MN 55792 (218) 742-1042



SAMPLE SUMMARY

Project: USS MinTac NPDES-TB Wk 3

Pace Project No.: 1270846

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1270846001	SD 001 (Seep 020)	Water	07/20/16 10:30	07/20/16 11:40





SAMPLE ANALYTE COUNT

Project: USS MinTac NPDES-TB Wk 3

Pace Project No.: 1270846

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1270846001	SD 001 (Seep 020)	EPA 1664 TPH	BT1	1	PASI-DUL
		USGS I-3765	JP1	1	PASI-V



ANALYTICAL RESULTS

Project: USS MinTac NPDES-TB Wk 3

Pace Project No.: 1270846

Date: 07/27/2016 01:31 PM

Sample: SD 001 (Seep 020)	Lab ID:	1270846001	Collecte	d: 07/20/10	6 10:30	Received: 07	/20/16 11:40 Ma	trix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual		
1664 SGT-HEM, TPH Analytical Method: EPA 1664 TPH											
Total Petroleum Hydrocarbons	ND	mg/L	3.0	1.0	1		07/25/16 15:35				
USGS I-3765 TSS	Analytical Method: USGS I-3765										
Total Suspended Solids	2.0	mg/L	1.0	1.0	1		07/26/16 11:34				



QUALITY CONTROL DATA

Project: USS MinTac NPDES-TB Wk 3

Pace Project No.: 1270846

QC Batch: 88805 Analysis Method: **EPA 1664 TPH**

QC Batch Method: **EPA 1664 TPH** Analysis Description: 1664 SGT-HEM, TPH Associated Lab Samples: 1270846001

METHOD BLANK: 348759 Matrix: Water

Associated Lab Samples: 1270846001 Blank Reporting

Limit MDL Parameter Units Result Qualifiers Analyzed

Total Petroleum Hydrocarbons ND 3.0 1.0 07/25/16 13:13 mg/L

Spike LCS

348760

LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers

72 Total Petroleum Hydrocarbons mg/L 20 14.3 64-132

MATRIX SPIKE SAMPLE: 348761

LABORATORY CONTROL SAMPLE:

Date: 07/27/2016 01:31 PM

1270156001 MS Spike MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers ND 64-132 Total Petroleum Hydrocarbons 23.3 17.4 72 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: USS MinTac NPDES-TB Wk 3

Pace Project No.: 1270846

QC Batch: 88952 Analysis Method: USGS I-3765

QC Batch Method: USGS I-3765 Analysis Description: USGS I-3765 Total Suspended Solids

Associated Lab Samples: 1270846001

METHOD BLANK: 349490 Matrix: Water

Associated Lab Samples: 1270846001

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Suspended Solids mg/L ND 1.0 07/26/16 11:31

LABORATORY CONTROL SAMPLE: 349491

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** mg/L 239 240 100 80-120

SAMPLE DUPLICATE: 349492

1270928001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 223 220 2 10 Total Suspended Solids mg/L

SAMPLE DUPLICATE: 349493

Date: 07/27/2016 01:31 PM

1270850001 Dup Max RPD RPD Parameter Units Result Result Qualifiers 100 Total Suspended Solids mg/L 103 3 10

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: USS MinTac NPDES-TB Wk 3

Pace Project No.: 1270846

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

Date: 07/27/2016 01:31 PM

PASI-DUL Pace Analytical Services - Duluth
PASI-V Pace Analytical Services - Virginia



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: USS MinTac NPDES-TB Wk 3

Pace Project No.: 1270846

Date: 07/27/2016 01:31 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1270846001	SD 001 (Seep 020)	EPA 1664 TPH	88805		
1270846001	SD 001 (Seep 020)	USGS I-3765	88952		

								12	2	ô	9	60	7	6	Ġ	3	N	-	ITEM #			Request	Phone:	Mt. Iron, Email:	Address:	Compan	Section A Required	· :
							ADDITIONAL COMMENTS											SD 001 (Seep 020)	SAMPLE ID One Character per box. (A-Z, 0-9 / , .) Sample Ids must be unique			ted Due Date:	Fax	Mt. Iron, MN 55768	F.O. Box 417	Company: USS Corporation	Section A Required Client Information:	Pace Analytical
						Fa.	REI								-				Orinking Water DW Water WT Waste Water WW Product P Soll/Solid SL Oil Wipe WP Air AR Other TS	CODE		Project #:	Project Name:	Purchase Order #	Copy To:	Report To: Tom Moe	Section B Required Proj	
						1 Pe	SHOOK											¥	MATRIX CODE (see valid code SAMPLE TYPE (G=GRAB C=					#		om Mo	ect Info	
 	_		70 ⊗			Rod Pekkear, wen	RELINQUISHED BY / AFFILIATION											7.25 16 16:30	START DATE TI	1			NPDES-TB Wk3			Ö	ormation:	
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Document Name:

Sample Condition Upon Receipt Form

Document No.:

Document Revised: 23Feb2015

Page 1 of 1

Issuing Authority:

	F	-VM-C-001-Rev.09	·	Pace Virginia, Minne	sota Quality Office	
Sample Condition Client Name: Upon Receipt (15) Corpor	ation	Project i	*: WC	#:1270 		
Courier: Fed Ex UPS	USPS	lient	1270	846 846		
Commercial Pace Tracking Number:	JOther:_	·				
Custody Seal on Cooler/Box Present?	ZMS ,	Seals Intact? [Yes Su	Optional: Proj.	Due Date: Proj.	Name:
Packing Material: Bubble Wrap Bubble i	Bags No	ne Other:_	·	Temp	Blank?	□No
Thermometer Used: 140792808	Type of le	ce: Swet [Blue 🔲	vone Samples or	n ice, cooling proces	is has begun
Cooler Temp Read °C: 5 4 Cooler Temp Temp should be above freezing to 6°C Correction Fa	Corrected °C		d Initials of Pe	Biological Tissue Froze		No AMA
			٠.	Comme	nts:	
Chain of Custody Present?	≥ es	□No □N/A	1.			
Chain of Custody Filled Out?	Res .	□No □N/A	2.			
Chain of Custody Relinquished?	Tyres	□No □N/A	3.			
Sampler Name and Signature on COC?	Yes	□No □N/A	4.			
Samples Arrived within Hold Time?	3	□No □N/A	5.			
Short Hold Time Analysis (<72 hr)?	☐Yes	Q N/A □N/A	6.	*		
Rush Turn Around Time Requested?	☐Yes	N/A □N/A	7.			
Sufficient Volume?		□No □N/A	8.	· · · · · · · · · · · · · · · · · · ·	***************************************	
Correct Containers Used?		□No □N/A	9.			
-Pace Containers Used?	Yes	□No □N/A				
Containers Intact?	- Nes	□No □N/A	10.	:		
Filtered Volume Received for Dissolved Tests?	□Yes	□No MA	11. Note if	sediment is visible in the o	dissolved containers.	
Sample Labels Match COC?	Yes	□No □N/A	12.	 		
-Includes Date/Time/ID/Analysis Matrix:	1					
All containers needing acid/base preservation will be checked and documented in the pH logbook.	□Yes	□No SMA	See pH lo	og for results and a	additional pres	ervation
Headspace in Methyl Mercury-Container	Yes	□No SuÃa	13.			
Headspace in VOA Vials (>6mm)?	□Yes	□No DN/A	14.			
Trip Blank Present?	∐Yes	. □No AN/A	15.		·	
Trip Blank Custody Seals Present?	∐Yes	□No DATA				
Pace Trip Blank Lot # (if purchased):		-				
CLIENT NOTIFICATION/RESOLUTION Person Contacted:		1	Date/Time:	Field Data Requ		No
Comments/Resolution:		· · · ·				
		<u> </u>			1	
*						

FECAL WAIVER ON FILE

TEMPERATURE WAIVER ON FILE

Project Manager Review:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Intra-Regional Chain of Custody



Cooler T	4	3	2	1	Transfers		ζī	4	ω	2	1 SD 00	Item Sample ID	Report To: Melisa M Woods	Pace Analytical Virgi 315 Chestnut Street Virginia, MN 55792 Phone (218) 742-10	Received at:
Cooler Temperature on Bessint to -1			,		Released By						SD 001 (Seep 020)	ole ID	Woods	Pace Analytical Virginia 315 Chestnut Street Virginia, MN 55792 Phone (218) 742-1042	
											PS 7	Sample C			
, I				30 14 14 12 12	Date/Time						7/20/2016 10:30	Collect Date/Time		Pace Ana 4730 Ond Duluth, N Phone (2	Send To Lab:
					Received By						1270846001	Lab ID	- -	Pace Analytical Duluth 4730 Oneota Street Duluth, MN 55807 Phone (218) 727-6380	Send To Lab. See See See See See See See See See Se
)			Kustus Polson	Ву						Water 3	Matrix	1779		
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				7/25/11/2 14	Date/Time								ners		
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^{***}In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.



Document Name: Sample Condition Upon Receipt Form

Document No.:

F-DUL-C-001-Rev.01

Document Revised: 22Jan2016 Page 1 of 1

Issuing Authority:

Pace Virginia, Minnesota Quality Office

Sample Condition Client Name:		•	Project #	:
Upon Receipt R - CO C From	m Vi	rain	ia	
Courier: Fed Ex UPS	USPS	· —	lient	
CommercialPace	Other:			
Tracking Number:				
Custody Seal on Cooler/Box Present? Yes	No	Seals I	ntact? 5	es No Optional: Proj. Due Date: Proj. Name:
Packing Material: Bubble Wrap 🗡 Bubble Ba	gs 🔲 N	one [Other:	Temp Blank? ★Yes No
hermometer Used: 😡 B00051	Type of	Ice: 돈	Wet [Blue None Samples on ice, cooling process has begun
Cooler Temp Read °C: 1.5 Cooler Temp Coemp should be above freezing to 6°C Correction Factor				Biological Tissue Frozen? Yes No SANA Initials of Person Examining Contents: Comments:
Chain of Custody Present?	Yes	□No	□n/a	1.
Chain of Custody Filled Out?	Yes	□No	□N/A	2.
Chain of Custody Relinquished?	√Yes	□No	□N/A	3.
Sampler Name and Signature on COC?	□Yes	□No	-₩N/A	4.
Samples Arrived within Hold Time?	Yes	□No	□N/A	5.
Short Hold Time Analysis (<72 hr)?	 ∐Yes	— No		6.
Rush Turn Around Time Requested?	 □Yes	E No	 □n/A	7.
Sufficient Volume?	¥yes	□No	□n/A	8.
Correct Containers Used?	Yes	□No	□ N/A	9.
-Pace Containers Used?	Yes	□No	□n/a	
Containers Intact?	Yes	□No	□n/a	10.
Filtered Volume Received for Dissolved Tests?	Yes	□No	⊠ N/A	11. Note if sediment is visible in the dissolved containers.
Sample Labels Match COC?	Yes	□No	□n/a	12.
-Includes Date/Time/ID/Analysis Matrix: wT				
All containers needing acid/base preservation will be checked and documented in the pH logbook.	∐Yes	□No	₽ N/A	See pH log for results and additional preservation documentation
Headspace in Methyl Mercury Container	Yes	□No	□ N/A	13.
Headspace in VOA Vials (>6mm)?	□Yes	□No	□ N/A	14.
Trip Blank Present?	Yes	∏No	□ N/A	15.
Trip Blank Custody Seals Present?	∐Yes	□No	I IN/A	
Pace Trip Blank Lot # (if purchased):				
CLIENT NOTIFICATION/RESOLUTION Person Contacted:				Field Data Required? ☐ Yes ☐ No Date/Time:
Comments/Resolution:				
FECAL WAIVER ON FILE Y N _		TEM	1PERATU	RE WAIVER ON FILE Y N

Project Manager Review: Date: 7-25-16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)